- 26 -

CLAIMS

- 1. A method for generating a printer model, the printer model comprising:
 - a plurality of colorant points, each colorant point having colorant values in colorant space; and
 - for each colorant point a corresponding colour point, said colour point having colour values in colour space; the method comprising the steps of:
 - obtaining a set of initial colorant points and corresponding colour points;
 - reducing said set of initial colorant points by removing at least one selected colorant point, for which the corresponding selected colour point is within a specified colour tolerance predictable by a predicted colour point obtained from colour points corresponding to colorant points neighbouring said selected colorant point.
- 2. The method according to claim 1, further comprising the steps of:
 - determining a CIELAB ΔE colour distance between said selected colour point and said predicted colour point;
 - removing said selected colorant point if said determined CIELAB ΔE colour distance is smaller than said specified colour tolerance.
- 3. The method according to claim 2 wherein said specified colour tolerance is at most ten units of CIELAB ΔE colour distance, more preferably at most five units, most preferably at most two units.
- 4. The method according to claim 1, further comprising the steps of:
 - defining a colorant domain in colorant space;
 - dividing said colorant domain into a plurality of nonoverlapping cells, wherein a union of said plurality of nonoverlapping cells constitutes said colorant domain and wherein

said initial colorant points are located at corner points of said plurality of non-overlapping cells.

- 5. The method according to the preceding claim, further comprising the steps of:
 - selecting out of said plurality of non-overlapping cells a plurality of cells having as a selected corner point said selected colorant point;
 - predicting the colour values at said selected corner point by using colour values corresponding to corner points of said plurality of selected cells excluding said selected corner point.
- 6. The method according to claim 4, further comprising the step of enlarging the set of initial colorant points by adding a colorant point at one of said corner points of said plurality of non-overlapping cells.
- 7. The method according to claim 5, further comprising the step of enlarging the set of initial colorant points by adding a colorant point at one of said corner points of said plurality of non-overlapping cells.
- 8. A colour target for characterising a printing device, said colour target consisting of a plurality of colour patches located in colorant space on grid lines forming a regular grid, said grid lines having:
 - first intersection points corresponding to said colour patches and located at first colorant points in colorant space; and
 - second intersection points without corresponding colour patches and located at second colorant points in colorant space; wherein each colour patch has first measured colour values defining a first measured colour point in colour space corresponding to said first colorant point in colorant space; wherein a colour distance is defined in said colour space;

į, "i,

ť.

wherein for each colorant point, selected out of said first and second colorant points, a corresponding predicted colour point is determined by using said first measured colour points corresponding to first colorant points neighbouring said selected colorant point on the regular grid so that

- for each colour patch, the colour distance between said corresponding predicted colour point and said first measured colour point is larger than a specified colour tolerance; and for each selected second colorant point, the colour distance between said corresponding predicted colour point and a second measured colour point is within said specified colour tolerance; wherein said second measured colour point is defined by second colour values, measured on a patch printed by the printing device when addressed by colorant values of said selected second colorant point.
- 9. The colour target according to claim 8 wherein said colour distance is CIELAB ΔE colour distance.
- 10. The colour target according to claim 9 wherein said specified colour tolerance equals five units of CIELAB ΔE colour distance.
- 11. The colour target according to claim 9 wherein said specified colour tolerance equals two units of CIELAB ΔE colour distance.